



Central Valley Regional Water Quality Control Board

27 March 2015

NOTICE OF VIOLATION

Dennis W. Hurt Longview Production Company 7775 South Madera Avenue Kerman, CA 93630 CERTIFIED MAIL 7014 2870 0000 7593 4849

INSPECTION REPORT – LONGVIEW PRODUCTION COMPANY, SURFLUH LEASE, RAISIN CITY OIL FIELD, FRESNO COUNTY

Central Valley Regional Water Quality Control Board (CVRWQCB) staff (Staff) inspected the Surfluh Lease in the Raisin City Oil Field on 4 February 2015 to ascertain the status of one surface impoundment (pond) identified by the California Division of Oil, Gas, and Geothermal Resources (DOGGR) as inactive. Disposal operations at the facility are not regulated by Waste Discharge Requirements (WDRs) and a Report of Waste Discharge has not been received. Staff's comments are presented in the enclosed inspection report.

Staff observed one unlined, pond being used for evaporation and percolation of wastewater from oil production operations. The pond was neither fenced nor netted. Staff collected one wastewater sample from pond and submitted it to a certified laboratory for analysis of general minerals and volatile organic compounds.

Analytical results of the wastewater sample indicate that Longview Production Company discharged oil field produced wastewater with waste constituent concentrations in excess of maximum electrical conductance, chloride, and boron concentration limits contained in the *Water Quality Control Plan for the Tulare Lake Basin*, Second Edition, revised January 2004 (Basin Plan), Discharge to Land, Oil filed Wastewater section. Basin Plan limits are an EC of 1,000 microsiemens per centimeter (µS/cm), chloride of 200 milligrams per liter (mg/L), and boron of 1 mg/L. The discharge of wastewater to the pond occurred without the submission of a RWD is a violation of 13230(a) of the CWC. The unauthorized wastewater discharge to the ground needs to cease upon receipt of this NOV. Any discharges are subject to enforcement pursuant to CWC Section 13350, and potential liability up to \$10 for each gallon discharged or \$5,000 for each day that the discharge occurs.

There were pools of crude oil throughout the tank farm containment area east of the pond location. The oil impacted soil needs to be cleaned up.

KARL E. LONGLEY SCD, P.E., CHAIR | PAMELA C. CREEDON P.E., BCEE, EXECUTIVE OFFICER

If Longview Production Company intends to retain the pond for the discharge of wastes or use the pond during maintenance or other upset conditions, a Report of Waste Discharge (RWD), along with the appropriate filing fee, needs to be submitted for issuance of WDRs. The discharge of wastes to a pond without WDRs, or before 140 days following a determination that the submitted RWD is complete and adequate, is a violation of Section 13260 of the California Water Code (CWC). The RWD needs to include a demonstration that the California Environmental Quality Act (CEQA) has been satisfied. A violation of 13260(a) of the CWC may subject Longview Production Company to potential liability pursuant to CWC Section 13350 or 13261, in an amount up to \$10 for each gallon discharged or \$5,000 for each day that the discharge occurs, and/or up to \$1,000 for each day the RWD is not submitted.

If you have any questions regarding this inspection, please contact Alejandra Lopez at (559) 445-6071 or by email at <u>Alejandra.Lopez@waterboards.ca.gov</u>

DANE S. JOHNSON

Senior Engineering Geologist
Professional Geologist No. 4239

Enclosure: Inspection Report

Laboratory Analytical Results

cc: Tim Boardman, California Division of Oil Gas and Geothermal Resources, Coalinga California Department of Fish and Wildlife, Fresno

5	F	<u> </u>	FACILITIES IN	SDECTION	DISCHLND	1/4
	FICE	WDID			PROGRAM	PAGE NO.
	<u>/A</u>	400311 REG MEASURE ID	REPO	XI.	550202 PARTY ID	813689 PLACE ID
ORDE		TEG MEAGONE ID				T EAGE ID
	LONGVI	IEW PRODUCTION COM	MPANY	F	RAISIN CITY, SUR	FLUH
		DISCHARGER NAME			FACILITY NAME	
	7775	SOUTH MADERA AVEN	NUE	SE ¼, NE ¼, O		15S, R17E, MDB&M
		STREET ADDRESS		VE	STREET ADDRESS	
	. <u> </u>	KERMAN, CA 93630 CITY, STATE, ZIP CODE		· NEI	RMAN, FRESNO (CITY, STATE, ZIP CO	
		DENNIS W. HURT		F	ROBERT RICHARI	
		DISCHARGER CONTACT PERSON		,	FACILITY CONTACT PE	
(559	9) 567-6034			(559) 217-8775	rrichardson@	longviewgas.com
TEL	EPHONE NO.	E-MAIL A	DDRESS	TELEPHONE NO.		MAIL ADDRESS
		GE	NERAL INSPECTIO	N INFORMATIO	ON	
spect	ion Type: A	Type Compliance Inspec	tion		Lead Inspector: _A	Nejandra Lopez
2/04/20	015to	2/04/2015 0900	- 1030 Humid cool	and fog is clearing		
	INSPECTION DAT	TE(S) INSPEC	TION TIME	GENER/	AL WEATHER CONDITION	is
			INSPECTION AT	TENDEE(S)		•
	Alejandra Lo	opez Re	gional Water Board	(559) 445-60	71 Aleiand	dra.Lopez@waterboards.ca.gov
	NAME		COMPANY/AGENCY	TELEPHONE NO		E-MAIL ADDRESS
F	Robert Richa	rdson Long	view Production Company	(559) 217-87	75 rricha	rdson@longviewgas.cor
	NAME		COMPANY/AGENCY	TELEPHONE NO	Ο.	E-MAIL ADDRESS
	NAME		COMPANY/AGENCY	TELEPHONE NO	D	E-MAIL ADDRESS
	INI	SPECTION SUMM	IADV (for CIMOS	ontry 500 ok	aractor may	imum)
		on and percolation of coved), low berm, wastev				
		INSPECTION oted during inspection in table, and identify section of the		n documented entered	• • •	y Violation ID and Violation
abel	Violation ID	Violation Type	,	/iolation Description		Section of the WDRs Violated
1	988136	Basin Plan Prohibition	Discharge of high salinity	produced water to unl	ined pond	Tulare Lake Basin Plan
2	988137	Unauthorized Discharge	Failure to submit a comp	leted Report of Waste	Discharge	CWC section 13260(a)
}			·			
1 .						
5	ļ					
3						
		0	THER VIOLATION	IS (if applicab	le)	
MR vi	olations?	☐ Yes ☒ No ☐ N	ot Evaluated Notes:			
le Rev	view violations?	Yes ⊠ No □ N	ot Evaluated Notes:			
Lead	Inspector ID:	451267 Sign	ature: <i>Opun</i>	tha Lo	}	Date: 3.27-2
spect	ion Tracking Inf	formation Reviewed b	y: (1)	(2)	(3	B)CIWQS Coordinator
		Production Company, Rais	in City,			,
ilenan	ne: <u>Surfluh</u>	·	CIWQS Entry D	ete: 3/23/2015	CIWQS inspe	ction ID: 19811136

FACILITIES INSPECTION REPORT LONGVIEW ENERGY COMPANY SURFLUH LEASE, RAISIN CITY OIL FIELD

FACILITY INFORMATION

Discharge to a previously closed unlined pond depression area.	Active
FACILITY DESCRIPTION (e.g., total area in acres, number of waste management units, etc.)	STATUS (active, inactive, closed)
Oil field production wastewater (produced water).	Oil/Gas Extraction
WASTE TYPES	FACILITY CLASSIFICATION
Produced water is disposed of into a depression at a previously closed pond site.	·
DISPOSAL DESCRIPTION (e.g. composting landfill surface impoundment etc.)	

BACKGROUND

Pond was closed on 5 September 2001 under a different operator. This is the first inspection under Longview Energy Company as operator. According to DOGGR all Raisin City wells belonging to Golden Exploration and Production Corp. were transferred to Longview Production Company on 1 November 2004.

INSPECTION GIS DATA

MANUFAC	CTURER .	MODEL	SERIAL N	O. DATUM
Description of Measured Point	Latitude	Longitude	Datum	Comments
Closed pond depression	36.62782	-120.08127	WGS84	Active discharge

INSPECTION OBSERVATIONS AND FINDINGS

Describe observations and findings and identify those that document and reference each violation listed in the Inspection Violations Summary table by identifying the cited violation number within parentheses following the observation/finding (e.g., Exposed waste on top deck (V1)).

The site was inspected to ascertain the status of one unlined, pond identified by DOGGR as inactive. Discharge of produced wastewater at the facility is not regulated by WDRs. The lease is discharging wastewater to an unlined depression located in the closed pond area. Photos were taken to document observed conditions (See Page 4).

The pond contained produced wastewater and was neither netted nor fenced (See Attachment 1 for a vicinity map showing pond location). Pond dimensions are approximately 70 feet by 60 feet and one foot deep (Photo 1). One wastewater sample was collected from the pond and submitted to a certified laboratory for analysis of general minerals and volatile organic compounds (VOCs). There were erosional features from the discharge point leading to the pond (Photo 2). The discharge area had what appear to be saline precipitates (Photo 4). The discharge area is overlain by several pipe joints and there are two open pipes in the ground.

Mr. Richardson mentioned that water accumulation in the pond was all rainwater from the tank containment area. According to wunderground.com the cumulative rain fall in the months of December was 2.88 inches, in January it was 0.03 inches, and the days leading to the inspection in February no rain fell in Kerman, California. When observing the elevation of the source at the top of the erosional channel it was noted that precipitation follows the path of least resistance from high to low areas. Any rain water accumulation in the tank containment area would not drain to the pond as there is a slight elevation increase between the pond and the tank area. In addition the slight amber color of the wastewater in the pond appears characteristic of oil production wastewater discharged to ponds.

Approximately 680 feet east of the pond location, Staff observed a large oil spill within the five tank containment area (See Page 5). Mr. Richardson mentioned that one of the oil stock tanks had overflowed and that the oil spill had been discovered in the morning. The berm to the containment area had been torn down in a section to allow heavy machinery to enter and pour fresh soil over the oil pools that extended throughout the containment area. There was a hole at the base of the berm wall in the east side of the containment area. No evidence was observed of the oil spill leaving the containment area. Fresh soil had been sprinkled throughout the containment area, yet there were lots of oil pools remaining during the inspection (Photos 5 through 10).

I mentioned to Mr. Richardson that unauthorized discharges had to be reported to the appropriate agencies. For specific rules and regulations on spill reporting procedures please refer to the "California Hazardous Materials Spill / Release Notification guidance" by California Office of Emergency Services, February 2014.

FACILITIES INSPECTION REPORT LONGVIEW ENERGY COMPANY SURFLUH LEASE, RAISIN CITY OIL FIELD

Attachments include:

SAMPLING INFORMATION AND OBSERVATIONS

Were samplės	collected during the inspection?	⊠ Yes ∐ No	Are sample results included	in report? Yes	∐ No
Did discharger	collect split samples?	☐ Yes No			
	SAMPLE C	OLLECTION INFORM	NATION AND OBSERVAT	IONS	
AL150402-6	Pond wastewa	ater		0940	1
SAMPL	E ID	SAMPLE DESCRIPTION/OBS	ERVATIONS	SAMPLE TIME (hours)	PHOTO NO.
SAMPL	F ID	SAMPLE DESCRIPTION/OBS	FRVATIONS	SAMPLE TIME (hours)	PHOTO NO.
OAWI E		DISCUSSION OF SA	`	57 HTT 22 THTE (1.04.15)	7.110.10.110.
Discuss sample	ing results (e.g., discuss whether s	ampling results show comp	pliance with WDRs).		
analyzed for Sample and	analysis of one sample (A r general minerals and VOC alytical results were: elec- per liter (mg/L); chloride w	s. trical conductance (I	EC) 41,000 μS/cm; total	dissolved solids ((TDS) 27,000
benzene, to constituent Facility was to surface ir	luene, ethylbenzene, and x concentrations. tewater contains EC, chloric npoundments contained in 04 (Basin Plan).	ylenes, (BTEX) were a	all not detected, see attach	ned analytical report	for remaining for discharges
		CONCLU	JSIONS		
Summarize the	e conclusions of the inspection(s) b	pelow.			
	ere is one un-lined pond being posal operations to the pond				vater.
con	cility pond wastewater cor centrations that exceed allowater Quality Control Plan	owable concentration	s for disposal of oil field w	vastewater, which is	a violation of
3. Oil	spill impacted soil needs to	be cleaned up.			•
Note: Insp	ection photographs follow				

Attachment 1. Vicinity-Pond Map

Attachment 2. Analytical data Attachment 3. Precipitation log

PHOTOGRAPHS

Photo 1. North view of sump

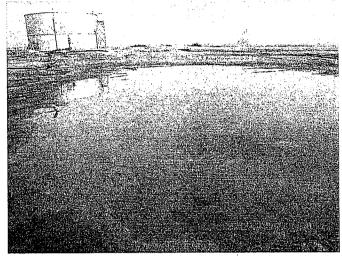


Photo 2. Wastewater erosional channels

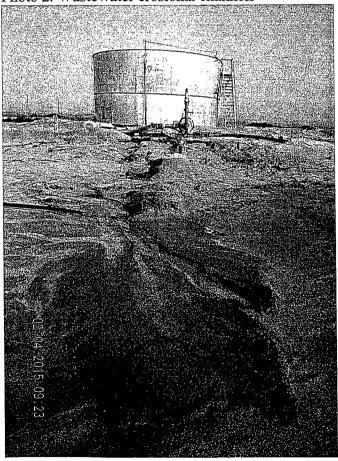


Photo 3. Erosion at discharge source

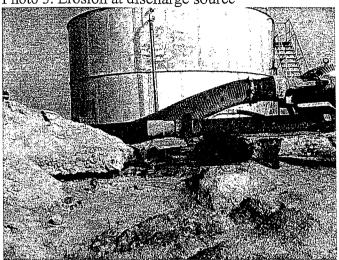
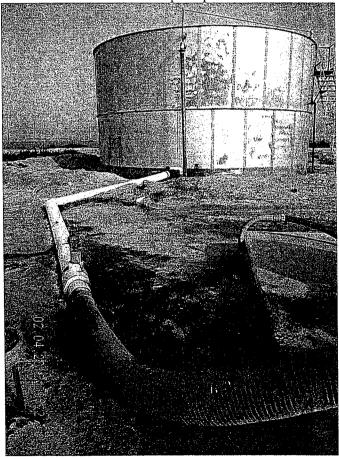


Photo 4. Accumulation of precipitates



FACILITIES INSPECTION REPORT LONGVIEW ENERGY COMPANY SURFLUH LEASE, RAISIN CITY OIL FIELD

Photo 5. Hole at base of berm, oil spill

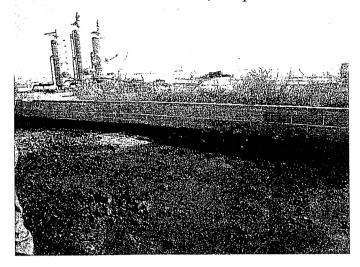


Photo 6. South view, containment berm removed

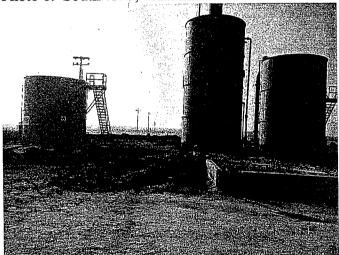


Photo 7. South view, west side of containment area

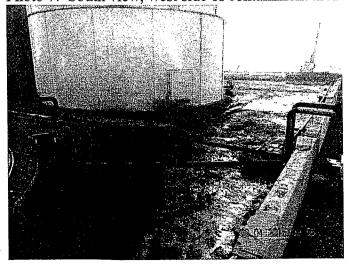


Photo 8. Oil spill splash zone

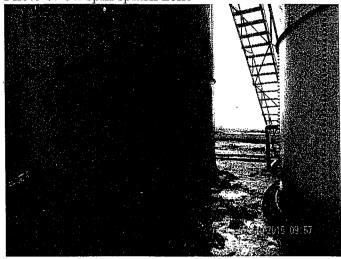
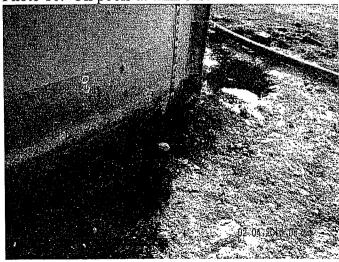


Photo 9. NW view, fresh soil over oil pools



Photo 10. Oil pools at tank base



Site map

Inspection 4 February 2015

LONGVIEW ENERGY COMPANY SURFLUH LEASE, RAISIN CITY OIL FIELD SE 1/4, NE 1/4, OF SECTION 14, T15S, R17E, MDB&M



Aerial image date 4/13/2013

Site is unregulated. One unlined and not netted pond is used for disposal of wastewater. There appears to be no freeboard. Mr. Richardson claimed that the liquid in the pond was precipitation accumulation. According to Weather Underground there was no rain in the days leading to the inspection in February, there was a cumulative rain of 0.03 inches in January and 2.88 inches in December. It is highly unlikely that the water in the sum is rainwater. Pond sample analytical results were: electrical conductance (EC) 41,000 µS/cm; total dissolved solids (TDS) 27,000 milligrams per liter (mg/L); chloride was detected at 15,000 mg/L; boron at 7.7 mg/L; and sodium at 8,900 mg/L; benzene, toluene, ethylbenzene, and xylenes, (BTEX) were all not detected.

There were pools of crude oil in the containment area east of the pond. Fresh soil was sprinkled throughout the containment area, yet oil pools remain in some sections. Oil pools pose an entrapment threat to wildlife. Oil impacted soil need to be cleaned up.

Attachment 2



2527 Fresno Street Fresno, CA 93721 (559) 268-7021 Phone (559) 268-0740 Fax

California ELAP Certificate #1371

RWQCB - Fresno

Project: 13-014-150 .

1685 E Street

Project Number: Pyramid Hills Oil Field - DOGGR Sump List

Fresno CA, 93706-2007

Project Manager: Anthony Toto

Reported:

2/19/2015

AL150402-6

Surfluh

BB05002-05 (Waste Water)

Sampled:02/04/15 09:40

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Total Alkalinity as CaCO3		150	1.0	0.23	mg/L	1	U5B0514	CMG	2/5/15 16:01	2/5/15 19:38	SM2320B
Bicarbonate Alkalinity as HCO3		180	1.3	0.23	mg/L	1	U5B0514	CMG	2/5/15 16:01	2/5/15 19:38	SM2320B
Carbonate Alkalinity as CO3		ND	1.0	0.23	mg/L	1	U5B0514	CMG	2/5/15 16:01	2/5/15 19:38	SM2320B
Hydroxide Alkalinity as OH		ND.	1.0	0.23	mg/L	. 1	. U5B0514	CMG	2/5/15 16:01	2/5/15 19:38	SM2320B
Cation/Anion Balance (% Difference)		4.2			%	1	U5B1817	JAA	2/18/15 17:00	2/18/15 17:01	SM 1030F
Chloride		15000	600	5.5	mg/L ·	300	U5B0517	ETH	2/5/15 17:35	2/7/15 7:54	EPA 300.0
Specific Conductance (EC)		41000	1.0	·0.26	μS/cm	1.	U5B0514	CMG	2/5/15 16:01	2/5/15 19:38	SM2510B
Nitrate as NO3		ND	100	0.88	mg/L	50	U5B0517	ETH .	2/5/15 17:35	2/5/15 21:06	EPA 300.0
Nitrite as N		ND	15	0.53	mg/L	50	U5B0517	ETH	2/5/15 17:35	2/5/15 21:06	EPA 300.0 ·
Orthophosphate as P		ND	12	0.14	mg/L	50	U5B0517	ETH	2/5/15 17:35	2/5/15 21:06	EPA 300.0
Sulfate as SO4	J,	40	100	0.47	mg/L	50	U5B0517	ETH	2/5/15 17:35	2/5/15 21:06	EPA 300.0
Total Dissolved Solids		27,000	200	160	mg/L	20	U5B0901	MVY	2/9/15 8:09	2/10/15 13:10	SM 2540C
Metals - Totals									•		
Boron .	•	7.7	0.10	0.0017	mg/L	1	U5B0509	DAR	2/9/15 12:35	2/10/15 22:25	EPA 200.7
Calcium		960	100	7.6	mg/L	500	U5B0509	DAR	2/9/15 12:35	2/12/15 19:15	EPA 200.7
Hardness		3700	250		mg equiv. CaCO3/L	500	[CALC]	DAR	2/12/15 19:15	2/12/15 19:15	[CALC]
Iron	•	2.6	0.20	0.034	mg/L .	1	U5B0509	DAR	2/9/15 12:35	2/10/15 22:25	EPA 200.7
Magnesium		320	0.20	0.018	mg/L	1	U5B0509	DAR	2/9/15· 12:35	2/10/15 22:25	EPA 200.7
Manganese		1.5	0.010	0.00035	mg/L	1	U5B0509	DAR	2/9/15 12:35	2/10/15 22:25	EPA 200.7
Potassium		100	2.0	0.15	mg/L	1	U5B0509	DAR	2/9/15 12:35	2/10/15 22:25	EPA 200,7
Sodium		8900	1000	260	mg/L	500	U5B0509	DAR	2/9/15 12:35	2/12/15 19:15	EPA 200.7
Volatile Organics							·;				
Dichlorodifluoromethane (CFC-12)		ND	0.50	0.19	μg/L	1	U5B0912	DIH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Chloromethane	J	0.46	0.50	0.16	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Vinyl chloride		. ND	0.50	0.16	μ g /L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Bromomethane		ND	1.0	0.32	μ g /L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Chloroethane		ND	0.50	0.16	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,1-Dichloroethene		ND	0.50	0.14	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Carbon disulfide	/	·ND	0.50	0.14	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA_8260B
Acrolein	•	ND	10	1.5	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Methylene chloride		ND	1.0	0.20	μg/L	. 1	U5B0912	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
trans-1,2-Dichloroethene		ND	0.50	0.11	μg/L	1	U5B0912	DIH	2/9/15 13:30	2/9/15 20:30	EPA 8260B



2527 Fresno Street Fresno, CA 93721 (559) 268-7021 Phone (559) 268-0740 Fax

California ELAP Certificate #1371

RWQCB - Fresno

Project: 13-014-150

1685 E Street

Project Number: Pyramid Hills Oil Field - DOGGR Sump List

Fresno CA, 93706-2007

Project Manager: Anthony Toto

Reported: 2/19/2015

AL150402-6

BB05002-05 (Waste Water)

Sampled:02/04/15 09:40

Analyte	Flag R	esult	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics	•						775700010	7~777	2002 1000	2/0/15 00:00	EDA COCOD
Methyl tert-Butyl Ether (MTBE)		ND	1.0	0.36	μg/L	1	U5B0912	DTH .	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,1-Dichloroethane	_	ND .	0.50	0.12	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Acrylonitrile		ND '	5.0	2.9	μg/L	1 .	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
cis-1,2-Dichloroethene		ND	0.50	0.15	μ g /L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
2,2-Dichloropropane		ND	1.0	0.24	. μ g/L	. 1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Bromochloromethane	•	ND	0.50	0.20	μ g/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Chloroform		ND.	0.50	0.14	μg/L	. 1	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
Carbon tetrachloride		ИĎ	0.50	0.16	μ g /L	1	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,1,1-Trichloroethane (TCA)		ND .	0.50	0.16	μg/L	1	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,1-Dichloropropene		ND	0.50	0.12	.μg/L	ĺ	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
Benzene		ND	0.50	0.10	μg/L	1	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.50	0.10	μg/L	. 1	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
Trichloroethene (TCE)	•	ND	0.50	0.17	μg/L	1	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
Dibromomethane		ND	0.50	0.14	μ g /L	. 1	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,2-Dichloropropane		ND	0.50	0.10	μg/L	. 1	. U5B0912	•	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Bromodichloromethane		ND ·	0.50	0.13	μg/L	, 1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
cis-1,3-Dichloropropene		ND	0.50	0.11	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Toluene	a	ND	0.50	0.27	μg/L	I	. U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
trans-1,3-Dichloropropene		ND	0.50	0.14	μg/L	. 1	U5B0912	DIH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Tetrachloroethene (PCE)	٠.	ND .	0.50	0.12	μg/L	1	U5B0912	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Dibromochloromethane		ND	0.50	0.11	μg/L	1	U5B0912	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,3-Dichloropropane		ND	0.50	0.10	μg/L	. 1	U5B091	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.50	. 0.22	μg/L	1	U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Ethylbenzene		ND	0.50	0.10	μ g/ L	1	U5B091:	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Chlorobenzene		ND	0.50	0.10	μg/L	1	. U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.50	0.12	μg/L	1	Ų5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
m,p-Xylene		ND	1.0	0.20	μg/L	1	U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
o-Xylene		ND	0.50	0.10	μ g/ L	1	. U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPÁ 8260B
Bromoform		ND	1.0	0.12	μ g /L	1	U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Isopropylbenzene	•	ND	1.0	0.10	μg/L	. 1	U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Bromobenzene	. •	ND	0.50	0:10	μg/L	1	. U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA, 8260B
n-Propylbenzene		ND ·	1.0	0.10	μg/L	1	U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.50	0.11	μg/L	1	Ú5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	ÉPA 8260B
2-Chlorotoluene		ND	0.50	0.10	μg/L	1	U5B091	2 DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



2527 Fresno Street Fresno, CA 93721 (559) 268-7021 Phone (559) 268-0740 Fax

California ELAP Certificate #1371

RWQCB - Fresno

Project: 13-014-150

1685 E Street

Project Number: Pyramid Hills Oil Field - DOGGR Sump List

Fresno CA, 93706-2007

Project Manager: Anthony Toto

Reported: 2/19/2015

AL150402-6

BB05002-05 (Waste Water)

Sampled:02/04/15 09:40

			Danishin								
Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics										· · · · · · · · · · · · · · · · · · ·	
1,2,3-Trichloropropane (123TCP)		ND	0.50	0.29	μg/L ·	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
4-Chlorotoluene		ND	0.50	0.10	μg/L	. 1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
tert-Butylbenzene		ND	1.0	0.10	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,2,4-Trimethylbenzene		ND	1.0	0.10	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
sec-Butylbenzene		ND	0.50	0.10	· μg/L	, 1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
p-Isopropyltoluene		ND	1.0	0.10	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,3-Dichlorobenzene		ND	0.50	0.040	μg/L	1	: U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,4-Dichlorobenzene		ND	0.50	0.10	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
n-Butylbenzene		NĎ	0.50	0.13	μg/L	1 .	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,2-Dichlorobenzene		ND	0.50	0.12	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	5.0	0.39	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,2,4-Trichlorobenzene		ND	1.0	0.10	μg/L	·, 1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Hexachlorobutadiene		ND	1.0	0.10	μg/L	1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Naphthalene		ND	0.50	0.15	μg/L	1 .	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
1,2,3-Trichlorobenzene	-	ND	0.50	0.10	μ g/ L	. 1	U5B0912	DTH	2/9/15 13:30	2/9/15 20:30	EPA 8260B
Surrogate: 4-Bromofluorobenzene	•	100%	. 70-130	•		,	U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
Surrogate: Dibromofluoromethane		119%	70-130				U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B
Surrogate: Toluene-d8	•	107 %	70-130				U5B0912		2/9/15 13:30	2/9/15 20:30	EPA 8260B

Notes and Definitions

MS1	Recovery for this analyte was affected by matrix.
	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
BS3	Recovery for this analyte was biased high. Associated samples were ND.
ug/L	micrograms per liter (parts per billion concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
mg/L	milligrams per Liter (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the Minimum Detection Limit (MDL)
RPD	Relative Percent Difference

< Pravio	us Month	*2	013			Decem	bar 2014				2015 »		Next Month:
Su	nday	Мо	nday	Tue	sday	Wedr	Wednesday		sday	Fri	day	Satu	ırday
		1	J. W.	2		3		4		5	*	<u>6</u>	
		Actual:	74 48	Actual:	61 48	Actual:	75 57	Actual:	89 56	Actual:	66 54	Actual:	73 53
		Precip:	0.00	Precip:	0,49	Precip:	0.03	Precip:	0.02	Precip:	0.00	Precip:	Т
		Average:	58 37	Average:	58 37	Average:	57 37	Average:	57 37	Average:	57 37	Average:	56 37
		Precip:	0.02	Precip:	0.03	Precip:	0.04	Precip:	0,03	Precip;	0.04	Predp:	0.04
Z		8		2		10		11		12		13	
Actual:	68 47	Actual:	67 39	Actual:	54 48	Actual:	58 į 50	Actual:	65 51	Actual:	52 48	Actual:	55 45
Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.22	Precip:	1,32	Precip:	0.00
Average:	56 37	Average:	56 37	Average:	56 36	Average:	55 36	Average:	55 38	Average:	55 36	Average:	55 36
Precip:	0.05	Precip:	0.04	Precip:	0.04	Precip:	0.05	Precip:	0.04	Precip:	0.05	Precip:	0.05
14		15		<u>16</u>		17.		18	*	19		20	
Actual:	53 42	Actual:	55 42	Actual:	63 44	Actual:	58 46	Actual:	61 45	Actual:	58 41	Actual:	62 51
Precip:	0.00	Precip:	0.26	Precip:	0.31	Precip:	0.18	Precip:	0.00	Precip:	0.03	Precip:	0.01
Average:	54 36	Average:	54 36	Average:	54 36	Average:	54 36	Average:	54 36	Average:	53 36	Average:	53 36
Precip:	0.05	Precip:	0.08	Precip:	0.07	Precip:	0.08	Precip:	0.06	Precip:	0.06	Precip:	0.07
21		. 22		23		24		25	**	<u> 26</u>	*	27.	***
Actual:	62 48	Actual:	61 49	Actual:	65 42	Actual:	60 46	Actual:	56 36	Actual:	53 31	Actual:	56 30
Precip:	0.00	Precip:	0.01	Precip:	0.00	Precip:	т .	Precip:	0.00	Precip;	0.00	Precip:	0.00
Average:	53 36	Average:	53 36	Average:	53 36	Average:	53 36	Average:	- 53 38	Average:	53 36	Average:	52 36
Precip:	0.06	Precip:	0.07	Precip:	0.08	Precip:	0.07	Precip:	0.07	Precip:	0.06	Precip:	0.08
28		29	*	30		<u>31</u>	*					•	
Actual:	55 32	Actual:	55 31	Actual:	46 29	Actual:	49 26		•				•
Precip:	9,00	Precip:	0.00	Precip:	0.00	Precip:	0.00		•	•	•		
Average:	52 36	Average:	52 38	Average:	52 36	Average:	52 36						
Precip:	0.08	Precip:	0.07	Precip:	0.07	Precip:	. 0.06	1					

·	Month Precipitation - Actual month total: 2.88 Normal month total: 1.70											
Sunny Mostly Cloudy Clear Perity Sunny	Calendar Key Mostly Sunny Partly Cloudy	1425.	Actual: 90 58 Lo Temp. Precip: 0.00 Precip. (in Inches) Average: 71 53 Temps in Tem									
Hail Thunderstorms	Hazy Sleet	denotes chance of	Precip: 0.03 80 30 0 30 80 90 120									

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<u>Ke</u>	rma		CA										 1
« Previo	eus Month	< 21	014		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Januar	y 2015				2016 »		Nexi Month >
Su	nday	Моп	day	Tues	day	Wedn	esday	Thur	iday ·	Fric	iay	Satu	rday
								1		· 2		3	
	•							Actual:	53 27	Actual:	53 26	Actual:	55 26
								Precip:	0.00	Precip:	0.00	Precip:	0.00
		*						Average:	52 37	Average:	52 37	Average:	52 37
								Precip:	0.12	Precip:	0.13	Precip:	0.11
4	*	<u>5</u>		<u>6</u>	*	z		8	*	<u>9</u>		<u>10</u>	
Actual:	. 55 30	'Actual:	80 (31	Actual:	62 34	Actual:	67 34	Actual:	66 37	Actual:	64 43	Actual:	63 43
Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00
Average:	52 37	Average:	52 37	Average:	52 37	Average:	53 37	Average:	53 37	Average:	53 37	Average:	53 37
Precip:	0.10	Precip:	0.10	Precip:	0.10	Precip:	0.10	Precip:	0.10	Precip:	0.09	Precip:	0.10
11		<u>12</u>		13		14		,15		<u>16</u>		<u>17</u>	
Actual:	85] 41	Actual:	55 40	Actual:	59 42	Actual:	59 34	Actual:	47 41	Actual:	50 41	Actual:	53 44
Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	T	Precip:	0.00	Precip:	0.00
Average:	53 37	Average;	53 37	Average:	53 37	Average:	53] 3 7	Average:	53 37	Average:	54 37	Average:	54 37
Precip:	0.10	Precip:	0.10	Precip:	80,0	Precip:	0.09	Precip:	80.0	Precip:	0.07	Precip:	80,0
18		<u>19</u>		20		<u>21</u>		22	*	23		24	
Actual:	50 44	Actual:	50 46	Actual:	50 47	Actual:	50 47	Actual:	-1-	Actual:	48 45	Actual:	50 42
Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00	Precip:	0.00
Average:	54 37	Average:	54] 37	Average:	54 37	Average:	55 37	Average:	55 38 0.07	Average:	55 38 9.06	Average: Precip:	55 j 38 0.06
Precip:	. 0.08	Precip:	0.08	Precip:	0.07	Precip:	0.08	Precip:	U.U/	Precip:	0.06	rieup.	0.00
<u>25</u>		<u>26</u>		<u>27</u>		<u>28</u>		29		<u>30</u>		31	
Actual:	50 38	Actual:	56 33	Actual:	66 48	Actual:	53 43	Actual:	61 43	Actual:	64 41	Actual:	63 40
Precip:	0.00	Precip:	0.00	Precip:	0.03	Precip:	0.00 56 38	Precip: Average:	0.00 57 38	Precip: Average:	6.00 57 38	Precip: Average:	6,00 °
Average:	56 38	Average:	56 38	Average:	56 38 0.04	Average: Precip:	0.05	Precip:	0.05	Precip:	0.05	Precip:	0.05
Precip:	0.04	Precip:	0.04	Precip:		<u> </u>		نــــــــــــــــــــــــــــــــــ		1 . тосер.		1 	
				Mon	th Precipitation	n - Actual mor	rth total: 0.03 N	ormal month to	tal: 2.45				
				Calen	dar Key						- N/A.	LDate	Category
*	Sunny Clear	2300 KW 1	y Cloudy Sunny	Mos Sun		Cloudy 2	Rain		Snow	Actual:	90 58		dition Temp. 'emp.
1			·	Part	tly				,	Precip:	0.00	Dail	ip. (in inches) y Ayg. Temp.
	—		. Clo	oudy		·		1		Averag			ips in "F 30 60 90 120
1	Hail *** Flurries	Thun	derstorms	Haz	-527	Sleet	deno	100	Unknown	Precip:	0.03	0U-3U U	OU OU 90 120
3, 3, 4,	riumes 🞉	E /	4	Fog	"		char کروری	State of the last	i				
						of	(
L							١			<u> </u>			

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No precipitation Feb. 1 through Feb. 4